

# Human Computer Interaction – Lecture Notes

## Cambridge Computer Science Tripos, Part II

Alan Blackwell

### Overview of content:

Lecture 1: The scope and challenges of HCI and Interaction Design.

Lecture 2: Visual representation. Segmentation and variables of the display plane. Modes of correspondence

Lecture 3: Text and gesture interaction. Evolution of interaction hardware. Measurement and assessment of novel methods.

Lecture 4: Inference-based approaches. Bayesian strategies for data entry, and programming by example.

Lecture 5: Augmented reality and tangible user interfaces. Machine vision, fiducial markers, paper interfaces, mixed reality.

Lecture 6: Usability of programming languages. End-user programming, programming for children, cognitive dimensions of notations.

Lecture 7: User-centred design research. Contextual observation, prototyping, think-aloud protocols, qualitative data in the design cycle.

Lecture 8: Usability evaluation methods. Formative and summative methods. Empirical measures. Evaluation of part II projects.

# Human Computer Interaction Lecture Notes

**Didier Musso**



## **Human Computer Interaction Lecture Notes:**

*Human-computer Interaction* Keith Andrews, 2017      **Computer Vision in Human-Computer Interaction** Nicu Sebe, Michael S. Lew, Thomas S. Huang, 2004-05-12 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI 2004 held at ECCV 2004 in Prague Czech Republic in May 2004 The 19 revised full papers presented together with an introductory overview and an invited paper were carefully reviewed and selected from 45 submissions The papers are organized in topical sections on human robot interaction gesture recognition and body tracking systems and face and head      **Data Mining and Machine Learning Applications** Rohit Raja, Kapil Kumar Nagwanshi, Sandeep Kumar, K. Ramya Laxmi, 2022-03-02 DATA MINING AND MACHINE LEARNING APPLICATIONS The book elaborates in detail on the current needs of data mining and machine learning and promotes mutual understanding among research in different disciplines thus facilitating research development and collaboration Data the latest currency of today's world is the new gold In this new form of gold the most beautiful jewels are data analytics and machine learning Data mining and machine learning are considered interdisciplinary fields Data mining is a subset of data analytics and machine learning involves the use of algorithms that automatically improve through experience based on data Massive datasets can be classified and clustered to obtain accurate results The most common technologies used include classification and clustering methods Accuracy and error rates are calculated for regression and classification and clustering to find actual results through algorithms like support vector machines and neural networks with forward and backward propagation Applications include fraud detection image processing medical diagnosis weather prediction e-commerce and so forth The book features A review of the state of the art in data mining and machine learning A review and description of the learning methods in human computer interaction Implementation strategies and future research directions used to meet the design and application requirements of several modern and real time applications for a long time The scope and implementation of a majority of data mining and machine learning strategies A discussion of real time problems Audience Industry and academic researchers scientists and engineers in information technology data science and machine and deep learning as well as artificial intelligence more broadly      *Human-Computer Interface Technologies for the Motor Impaired* Dinesh K. Kumar, Sridhar Poosapadi Arjunan, 2015-10-22 Human Computer Interface Technologies for the Motor Impaired examines both the technical and social aspects of human computer interface HCI Written by world class academic experts committed to improving HCI technologies for people with disabilities this all inclusive book explores the latest research and offers insight into the current limitations      **Human-Computer Interaction** Steve Howard, Judy Hammond, Gitte Lindgaard, 1997-07-31 This is the proceedings of the TC13 flagship conference held biannually It reflects the state of the art in HCI in 1997 It covers a broad range of the most important developments in HCI focusing on international issues in theory interface tools and architecture HCI applications and HCI development issues      *Human-Computer Interaction* Michael Lew, Nicu Sebe, Thomas S.

Huang, Erwin M. Bakker, 2007-11-04 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI 2007 Coverage in the 16 revised full papers presented includes affective detection and recognition human motion tracking multimedia data modeling and visualization HCI issues in image video retrieval learning in HCI input and interaction techniques perceptual user interfaces wearable and pervasive technologies in HCI and intelligent virtual environments

**Human-Computer Interaction (HCI).** , Features the Human Computer Interaction HCI Special Interest Group of the American Society for Information Science ASIS based in Silver Spring Maryland Includes information on related conferences and other events Provides access to related articles Notes that members of HCI have a special interest in human computer interaction interface design usability testing and effective online communication Links to the home page of the ASIS and its other special interest groups

*Formal Methods in Human-Computer Interaction* Philippe Palanque, Fabio Paternò, 1998 This volume examines the proposition that formal methods are one of the conceptual tools that can support the design of Interactive Systems understanding of their behaviour and reasoning about their properties All the approaches considered take into account some aspect of the Web environment which is one of the most successful software products of recent years millions of people use it every day in order to search for exchange and modify information As the case study in this volume it provides a familiar background against which problems can be discussed Book jacket

**Human-Computer Interaction. Interaction Contexts** Masaaki Kurosu, 2017-06-28 The two volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human Computer Interaction HCII 2017 held in Vancouver BC Canada in July 2017 The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems They cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers included in this volume cover the following topics games in HCI mobile and wearable interaction HCI children and learning and HCI in complex human environments

**Human-computer Interaction** Peter Johnson, 1992 This text provides an overview of the fundamental aspects of cognitive psychology which introduce the reader to the theoretical and empirical findings about human memory learning knowledge representation and skill acquisition The coverage of these topics in the early chapters is related to HCI by providing examples and illustrations of user interface designs The book then considers the range of models that have been developed in HCI giving examples of where these models have been used and discussing the strengths and weaknesses of the various approaches

**Human-computer Interaction** Gavriel Salvendy, Michael James Smith, 1993 Hardbound A total of 1 642 individuals from industry academia research institutes and governmental agencies from 41 countries submitted their work for presentation to HCI 93 Only those submittals which were judged to be of high scientific quality were included in the program These papers address the latest research and application in the human aspects of



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